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C O N F I D E N T I A L SECTION 1 OF 2 USNATO 0991

E.O. 11652: GDS

TAGS: ETEL, MARR, NATO

SUBJECT: INITIAL VOICE SWITCHED NETWORK(IVSN)

REF: USNATO 0622

AT THE REQUEST OF THE COUNCIL OPERATIONS EXERCISE COMMITTEE (REFTEL, CHAIRMAN (MACBRIEN) CIRCULATED ON FEBRUARY 14 A REVISED WORKING PAPER (AC/237-WP/97) ON NATO HQ REQUIREMENTS FOR CONFERENCE FACILITIES. THIS PAPER SETS FORTH THE POSSIBILITY OF EXPANDING THE NATO HQ CONFERENCE REQUIREMENT BEYOND THE CAPABILITY IN THE INITIAL VOICE SWITCHED NETWORK (IVSN) SWITCH SPECIFICATIONS OF TWO CONFERENCE BRIDGES EACH CAPABLE OF ACCOMMODATING UP TO TEN CONFERREES. EXPANDING THE CONFERENCE CAPABILITY BEYOND THE SWITCH SPECIFICATIONS WOULD SIGNIFICANTLY INCREASE THE OVERALL COST AND DELAY IMPEMENTATION OF THE IVSN AT NATO HQ. MISSION RECOMMENDS THAT THE US SHOULD NOT REPEAT NOT AGREE TO INCREASE THE CONFERENCE CAPABILITY BEYOND THE IVSN SWITCH SPECIFICATION. COUNCIL OPERATIONS EXERCISE COMIITTEE WILL CONSIDER AC/237-WP/97(REVISED) ON FEBRUARY 27. ACTION REQUIRED.REQUEST WASHINGTON GUIDANCE ON AC/237-WP/97(REVISED) BY FEBRUARY 25. TEXT FOLLOWS:.

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BACKGROUND

THE INITIAL VOICE SWITCHED NETWORK (IVSN)-ONE OF THE FIRST MAJOR IMPROVEMENTS OF NATO'S COMMUNICATIONS TO BE INTRODUCED UNDER THE NATO INTEGRATED COMMUNICATION SYSTEM(NICS)-

IS PLANNED TO BECOME OPERATIONAL IN 1977/77. IT IS DESIGNED TO PROVIDE AUTOMATIC TELEPHONE SERVICE TO DIRECT NICS SUBSCRIBERS (DNS) AND INDIRECT NICS SUBSCRIBERS (INS).

2. IN DUE COURSE, THE PILOT SECURE VOICE PROJECT (PSVP) WHICH IS DUE TO COME INTO SERVICE IN 1976 WILL BE PROGRESSIVELY INTEGRATED INTO THE IVSN AND PSVP SUBSCRIBERS WILL BECOME DNS OR INS AND THE IVSN ACCORDING TO THEIR STATUS AND THE TECHNICAL CHARACTERISTICS OF THEIR SECURE VOICE INSTALLATION.

3. THE IVSN IS PLANNED TO OFFER CERTAIN SPECIAL SUBSCRIBER FEATURES SUCH AS PRECEDENCE/PRE-EMPTION, HOT-LINE SERVICE AND IN PARTICULAR, CONFERENCE SERVICE TO CERTAIN SELECTED SUBSCRIBERS.

CONFERENCE ARRANGEMENTS

4. CONFERENCE FACILITIES WILL BE AVAILABLE FOR BOTH SECURE AND NON-SECURE CONVERSATION UNDER TWO DIFFERENT TYPES OF ARRANGEMENTS AS FOLLOWS:

(A) THE "PRE-PROGRAMMED" TYPE WHEREIN THE ORIGINATOR OR CONDUCTOR OF THE CONFERENCE IS LIMITED TO A PRE-SET GROUP OF SUBSCRIBERS. WHILE THE CONFEREES ARE IN THIS CASE PRE-SET AT THE ACCESS SWITCH, THE GROUPING CAN BE MODIFIED VIA A MINOR CHANGE IN SOFTWARE AT THE SWITCH.

(B) THE "PROGRESSIVE TYPE" WHEREIN THE CONDUCTOR OF THE CONFERENCE SELECTS SEQUENTIALLY EACH CONFeree BY DIALLING EACH CONFeree'S IVSN PHONE NUMBER IN TURN. THE SELECTION OF THE CONFEREES IN THIS CASE IS DECIDED BY THE CONDUCTOR OF THE CONFERENCE AT THE TIME OF THE CONFERENCE.

IN EITHER OF THE ABOVE ARRANGEMENTS, THE PRECEDENCE OF THE CONFERENCE IS DETERMINED BY THE CONDUCTOR OF THE CONFERENCE
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WITHIN LEVELS OF PRECEDENCE AVAILABLE TO HIM.

5. IN THE NON-SECURE MODE THE CONVERSATION IS DUPLEX OR TWO-WAY, I.E. EACH DISTANT SUBSCRIBER ENGAGED IN A CONFERENCE CAN TALK WHENEVER HE SEES FIT, AS IN THE CASE OF THE ORDINARY TELEPHONE. IN THE SECURE MODE, HOWEVER, THE CONVERSATION IS ONLY SIMPLEX OR ONE-WAY, I.E. EACH DISTANT SUBSCRIBER CAN ONLY TALK WHEN HE IS SO INVITED BY THE CONDUCTOR OF THE CONFERENCE. IN EITHER CASE, THE CONFEREES CAN LISTEN TO ALL THAT IS BEING DISCUSSED.

OPTIONS AND COSTS

6. TECHNICALLY, THE CONFERENCE CAPABILITY IS BEING

PROVIDED AT THE IVSN ACCESS SWITCH IN THE FORM OF BRIDGES AND LISTS OF AUTHORISED SUBSCRIBER IN THE SWITCH MEMORY. THE SIZE OF THE BRIDGE DEPENDS ON THE HIGHEST NUMBER OF CONFEJES THAT ARE ENVISAGED FOR THE CONFERENCE. THE MNCS AND NICSMA HAVE AGREED TO INCLUDE IN THE IVSN THE REQUIREMENT OF CONDUCTING CONCURRENTLY TWO CONFERENCES OF TEN CONFEREES EACH, THE CONFEREES TO BE SET UP EITHER BY A DIRECT NICS SUBSCRIBER (DNS) OR BY THE LOCAL EXCHANGE OPERATOR ON BEHALF OF AN INDIRECT NICS SUBSCRIBER (INS) . THE COST OF THIS FACILITY IS ESTIMATED AT ABOUT SOME 10,000 IAUS (2 X 5.000)(1).

7. IN THE CASE OF A HEADQUARTERS WHERE THE ACCESS SWITCH HAS NOT BEEN FITTED WITH CONFERENCE-BRIDGING CAPABILITY, IT IS STILL POSSIBLE FOR A SUBSCRIBER TO ORIGINATE AND CONDUCT A CONFERENCE THROUGH ANOTHER ACCESS SWITCH OF THE IVSN WHICH RECOGNISES HIM AS AN AUTHORISED SUBSCRIBER. THE PENALTY IN THIS CASE WOULD BE THE COMPETITION WITH THE CONFERENCE ORIGINATORS OF EQUAL OR HIGHER PRECEDENCE CONNECTED TO THIS SECOND ACCESS SWITCH.

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AUTHORISED SUBSCRIBERS

8. THE LIST OF SUBSCRIBERS WHO ARE RECOGNISED AS AUTHORISED TO INITIATE A CONFERENCE WILL BE REGISTERED AND KEPT UP TO DATE IN THE ACCESS SWITCH'S MEMORY.

DISCUSSION

9. UNDER CERTAIN CIRCUMSTANCES, EFFECTIVE CRISIS MANAGEMENT MAY REQUIRE AT NATO HEADQUARTERS, OVER AND ABOVE DISPATCH OF WRITTEN TRAFFIC OVER THE NATO-WIDE COMMUNICATIONS SYSTEM, RAPID AND SECURE VOICE COMMUNICATIONS WITH ONE OR MORE CAPITALS AND

MNCS SIMULTANEOUSLY. IN THIS RESPECT, IT IS RECALLED THAT THE MAJOR NATO COMMANDERS HAVE STATED THE REQUIREMENTS FOR A CONFERENCE CAPABILITY (NAMELY TWO CONCURRENT CONFERENCES OF UP TO 10 CONFEREES EACH) AND THAT THE FUTURE CONTRACTOR MUST INCLUDE THIS FEATURE IN THE IVSN PROJECT.

10. WHILE THE NEED FOR THIS HEADQUARTERS TO TALK CONCURRENTLY WITH ALL THE NATO CAPITALS IS NOT READILY APPARENT, IT APPEARS LIKELY THAT CONFERENCES MAY NEED TO BE CONDUCTED WITH THE NORTHERN OR SOUTHERN FLANK COUNTRIES, WITH A GROUP OF COUNTRIES SUCH AS THE NUCLEAR POWER COUNTRIES OR WITH THE THREE MNCS OR CONFIDENTIAL

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WITH A LIMITED COMBINATION OF THESE POSSIBILITIES. BE THAT AS IT MAY, THE COMMITTEE IS INVITED TO DECIDE WHETHER THE FACILITY FORESEEN IN THE IVSN (TWO BRIDGES OF 10 CONFEREES EACH) IS ACCEPTABLE OR WHETHER NICSMA SHOULD PLAN FOR THIS HEADQUARTERS A CONFERENCE CAPABILITY WITH A GREATER CAPACITY. IT IS UNDERSTOOD THAT THE LATTER COULD BE MET BY NICSMA WHEN THE AGENCY ENTERS INTO NEGOTIATIONS WITH THE WINNING BIDDER. IF SO REQUIRED.

11. IT IS BELIEVED THAT THE DECISION TO SELECT THE PARTNERS FOR A GIVEN CONFERENCE SHOULD BE LEFT WITH THE CONDUCTOR OF THE CONFERENCE. HE SHOULD BE ABLE TO SELECT EITHER DISTANT NICS SUBSCRIBERS (E.G. CAPITALS) OR LOCAL SUBSCRIBERS (E.G. DELEGATIONS) OR A MIXTURE THEREOF.

12. ONCE THE FACILITY HAS BEEN ACCEPTED FOR THIS HEADQUARTERS, IT IS SUGGESTED THAT THE DIRECTOR, COUNCIL OPERATIONS AND COMMUNICATIONS, IN CLOSE LIAISON WITH THE DIRECTOR, INTERNATIONAL MILITARY STAFF, BE CHARGED WITH DETERMINING-EXCEPT WITH RESPECT TO THE SECRETARY GENERAL, NATO, AND THE CHAIRMAN, MILITARY COMMITTEE-WHICH DIRECT NICS SUBSCRIBERS IN THE NATO HEADQUARTERS CAN BE AUTHORISED TO ORIGINATE CONFERENCES AND TO LAY DOWN THE APPROPRIATE PROCEDURES.

13. REQUIREMENTS FOR CONFERENCE FACILITIES IN NATO CAPITALS IS A SEPARATE SUBJECT THAT SHOULD BE DEALT WITH BY THE RELEVANT CAPITALS WITH NICSMA AND EVENTUALLY SATISFIED AT NATIONAL EXPENSE.

CONCLUSION.

14. IT IS CONCLUDED THAT:

(A) THERE IS AT NATO HEADQUARTERS A REQUIREMENT FOR CONDUCTING CONFERENCES THAT CAN BE MET BY THE PROGRESSIVE TYPE OF CONFERENCE ARRANGEMENT FORESEEN IN THE IVSN, I.E. EITHER TWO CONCURRENT CONFERENCES OF EACH A MAXIMUM OF 10 CONFEREES, OR TWO CONCURRENT CONFERENCES, ONE WITH A MAXIMUM OF 10 CONFEREES, AND THE OTHER WITH A MAXIMUM NUMBER OF CONFEREES TO BE DETERMINED BY THE COMMITTEE:

(B) THE ORIGINATOR OR CONDUCTOR OF THE CONFERENCE WILL
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NORMALLY BE THE SECRETARY GENERAL OR THE CHAIRMAN,
MILITARY COMMITTEE, OR THEIR DULY APPOINTED
REPRESENTATIVES;

(C) CONFERENCES ORIGINATED BY A LIMITED NUMBER OF OTHER
DNS SUBSCRIBERS MAY BE AUTHORISED. THE DIRECTOR,
COUNCIL OPERATIONS AND COMMUNICATIONS, IS CHARGED IN
CLOSE LIAISON WITH THE DIRECTOR, INTERNATIONAL
MILITARY STAFF, WITH DETERMINING THESE SUBSCRIBERS
AND TO LAY DOWN THE APPROPRIATE PROCEDURES.

RECOMMENDATIONS

15. IT IS RECOMMENDED THAT THE COMMITTEE APPROVE THE
STATEMENT OF REQUIREMENTS AS DESCRIBED IN PARAGRAPH 14 AND CHARGE
THE DIRECTOR, COUNCIL OPERATIONS AND COMMUNICATIONS, TO SO
INFORM THE DIRECTOR GENERAL, NICSMA.

(1) THE ESTIMATE FOR THE 25 IVSN ACCESS SWITCHES HAS BEEN
SUBMITTED FOR APPROVAL FOR FUNDING TO THE INFRASTRUCTURE
PAYMENTS AND PROGRESS COMMITTEE FOR AN AMOUNT OF
IAU 8,841,393 OR PRACTICALLY US 30M. (AC/4(PP)D/11.129
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